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other celestial bodies; and aerodynamic lift and drag. The principles of flight dynamics are used to model a spacecraft's orbital flight; maneuvers to change orbit; translunar and interplanet

**Flight dynamics
(spacecraft) -
Wikipedia**

To me, "Spaceflight
Page 11/51

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Dynamics" implies interplanetary and perhaps interstellar flight. However, only one (very weak) chapter on this, Ch 11. Here Wiesel, for instance, refers to the "Olberth" maneuvers only in a problem, misspells Dr. Hermann Oberth's name, and ignores the significance of his work. And this is a 2010 3rd

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vehicle influence its speed and attitude with respect to time. For a fixed-wing aircraft, its changing orientation with respect to the local air flow is represented by two critical angles, the angle of attack of the wing and the angle of attack of the vertical tail, known as the sideslip angle. A sideslip angle will arise

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Spacecraft Dynamics and Control

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1.2 Coordinate Systems

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Mechanics - UL FGG

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fundamentals, attitude dynamics, and attitude control.

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orientation. To provide stability and control, most airplanes use various control surfaces that work on the same principle as a wing, while spacecraft use thrust and spin.

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